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Claims

- 1. A method of transducing a cell in a blood vessel of an individual, comprising introducing a recombinant adeno-associated viral (rAAV) vector to a blood vessel of said individual in vivo.
- 5 2. A method of transducing a cell in a blood vessel according to claim 1, wherein said rAAV vector comprises a detectable marker gene.
 - 3. A method of transducing a cell in a blood vessel according to claim 1, wherein said rAAV vector comprises a selectable marker gene.
 - 4. A method of transducing a cell in a blood vessel according to claim 1, wherein said rAAV vector comprises a therapeutic gene.
 - 5. A method of transducing a cell in a blood vessel according to claim 1, wherein said blood vessel is a microvessel selected from the group consisting of arteriole, capillary, venule, and adventitial microvessel.
- 6. A method of transducing a cell in a blood vessel according to claim 5, wherein said blood vessel is an adventitial microvessel.
 - 7. A method of transducing a cell in a blood vessel according to claim 1, wherein said blood vessel is a microvessel and said cell is undergoing proliferation
 - 8. A method of transducing a cell in a blood vessel according to claim 1, wherein said cell is a primate cell.
- 9. A method of transducing a cell in a blood vessel according to claim 8, wherein said cell is a human cell.

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- 10. A method of transducing a cell in a blood vessel according to claim 1, wherein said cell is a proliferating cell.
- 11. A method of transducing a cell in a blood vessel according to claim 10, wherein said cell is a proliferating microvascular cell.
- 5 12. A method of transducing a cell in a blood vessel according to claim 1, wherein said cell is a microvascular cell.
 - 13. A method of transducing a cell in a blood vessel according to claim 12, wherein said cell is a microvascular endothelial cell.
 - 14. A method of transducing a cell in a blood vessel according to claim 1, wherein said rAAV vector is introduced into the adventitia of an artery of said individual.
 - 15. A transduced microvascular cell produced by introducing a recombinant adeno-associated viral (rAAV) vector to said microvascular cell.
- 16. A method for treating an individual for a disease condition,
 15 comprising transducing a cell in a blood vessel of said individual according to the method of claim 4.